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disabled protein 1 (mDabl) of the invention.

This sequence represents a PCR primer for DNA encoding a mammalian disabled protein 1 (mDabl) of the invention.

The mDabl gene is expressed as a variety of spliced mRNAs in the nervous system and in some cell lines, and mDabl proteins are differentially expressed and tyrosine phosphorylated during neural development. When phosphorylated on tyrosine, mDabl binds to the SHZ commains of Src, Fyn and Abl. mDabl also forms complexes with cellular phosphotyrosyl proteins through a phosphotyrosine-binding domain. mDabl cappears to play a role as an adaptor protein that participates in development of the nervous system. It is further demonstrated that disruption of the mDabl gene disturbs neuronal layering in the cerebral cortex, hippocampus and cereballum. The products can be used in screening and diagnostic methods, e.g. to screen for compounds capable of modulating the activity or expression of mDabl. Such compounds can be used to treat e.g. metastatic cancer, reactive gliosis, neurodegenerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vascular endothelial growth factor; VEGF; human; conjugate; tumour; iris; proliferation inhibition; VEGF-mediated pathophysiological condition; dermatological disorder; VEGF receptor; vascular proliferation; retina; ophthalmic disorder; hyperproliferating blood vessel; therapy; psoriasis; conjunctiva; vitreous humour; rheumatoid arthritis; skin cancer; primer; varioose veins; gene therapy; polymerase chain reaction; amplify; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence represents an amplification primer for (Gly4Ser) linker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vascular endothelial cell growth factor (VEGF) conjugates - having VEGF linked to targeted agent, used for inhibiting proliferation of cells, e.g. for gene therapy
                                                                                                                                                                                                                                                                                                                                                             Score 13; DB 20; Length 30;
Pred. No. 2.2e+03;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nova MP,
                                                                                                                                                                                                                                                                                                                Sequence 30 BP; 7 A; 10 C; 6 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Houston LL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 4; Page 87; 193pp; English.
                                                                                                                                                                                                                                                                                                                                                  61.9%; Scor
100.0%; Pre
0; '
                                                                                                                                                                                                                                                                            diseases and Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sense primer for (Gly4Ser) VEGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               95WO-US10973.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                        Ouery Match
Best Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PRIZ-) PRIZM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT17782 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         30 TTCATGAACAGCA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                     5 ttcatgaacagca 17
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Victor KD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalian disabled 1 protein; mDabl; nervous system; neural development; adaptor protein; metastatic cancer; reactive gliosis; diagnosis; therapy; neurodegenerative disorder; Alzheimer's disease; screening; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                   A stop-codon and a unique PstI site is introduced in the cat gene of pJRtac99. The PstI site is created without alteration of the protein sequence. The mutation is obtained by exchange of a BsmI-PstI fragment with a synthetic oligonucleotide cassette. Vector pJRtac103 was obtained from transformed ambersuppressor strains. Several variants were produced: pJRtac105 one Stop codons, pJRtac106 (one PstI site and two stop codons, pJRtac106 (one SacI site and two stop codons, pJRtac106 (one SacI site and the codons) and pJRtac107 (one SacI site and two stop codons). pJRtac103 was also used to create a variant having a PvuII site for the cloning of blunt fragments. The criginal PvuII site was deleted from the cat gene. This resulted in the replacement of Gln212 to Leu212, but did result in the loss of chloramphenicol resistance
 Volckaert GLJC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer for mammalian disabled 1 protein clone coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated mammalian Disabled protein gene - used to develop products for treating e.g. metastatic cancer, reactive gliosis, neurodegenerative diseases and Alzheimer's disease
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                                                                Vector for positive selection of recombinants - contg. mutated selectable marker gene reactivatable by insertion of DNA to be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
 Verhasselt PKM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 13.2; DB 15;
Pred. No. 1.9e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 51 BP; 15 A; 11 C; 16 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                   amber-suppressor strains (pJRtac109).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUTC-) HUTCHINSON CANCER RES CENT FRED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 3; Page 30; 83pp; English
Van der Schueren J,
                                                                                                                                     Example 2; Fig 1; 27pp; Dutch.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62.9%;
83.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX28029 standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 cttcatgaacagcagaag 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 62.9
Best Local Similarity 83.3
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-181030/15.
                                WPI; 1994-062988/08
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Robben JPI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-1999
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                                                                                                      cloned
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BA;

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Gaps

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vascular endothelial growth factor (VEGF). The amplified sequence is fragments of it, see AAT1613-T17616 and AAT17750) are linked to a targeted agent (this can be via a linker sequence), so that the conjugate binds to a VEGF receptor. Cys-modified forms of VEGF are conjugate binds to a VEGF receptor. Cys-modified forms of VEGF are aparticularly suitable for chamical conjugation to linkers and targeted agents. The conjugates are used for inhibiting proliferation of cells bearing VEGF receptors. They can be used for treating a VEGF-mediated underlying vascular proliferation, solid tumours or an ophthalmic disorder of hyperproliferation, solid tumours or an ophthalmic disorder of hyperproliferating blood vessels of the retina, iris, conjunctiva or vitreous humour. The conjugates can also be used for treating psoriasis, rheumatoid arthritis, skin cancers and other them.
                                                                                                                                                                                                                                                                                                                                                                                                 or varicose veins. They are also suitable for use in gene
                                                                                                                                                                                                                                                                                                                                                                                                 tumours,
                                                                                                                                                                                                                                                                                                                                                                                                                       therapy
      9555555555555555<del>x</del>&
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Sequence 38 BP; 8 A; 11 C; 15 G; 4 T; 0 other;

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Gaps
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    Length 38;
 Score 13; 'DB 17; Length 38
Pred. No. 2.3e+03;
0; Mismatches 5; Indels
                              ö
                                                           gctcttcatgaacagcagaag 21
Query Match 61.9%;
Best Local Similarity 76.2%;
Matches 16; Conservative
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16 g

AAT17783 standard; DNA; 53 (first entry) 11-0CT-1996 AAT17783; RESULT

BP

Sense primer for (Gly2Ser)2 VEGF.

Vascular endothelial growth factor; VEGF; human; conjugate; tumour; iris; proliferation inhibition; VEGF-mediated pathophysiological condition; dermatological disorder; VEGF receptor; vascular proliferation; retina; ophthalmic disorder; hyperproliferating blood vessel; therapy; psoriasis; conjunctiva; vitreous humour; rheumatoid arthritis; skin cancer; primer; varicose veins; gene therapy; polymerase chain reaction; amplify; PCR; saporin; ss

Synthetic.

WO9606641-A1

07-MAR-1996.

95US-0441979. 95WO-US10973 29-AUG-1995; 16-MAY-1995; 29-AUG-1994;

PHARM INC. (PRIZ-) PRIZM

Sosnowski Nova MP, Houston LL, Freund E, Fleurbaaij GA, Victor KD;

WPI; 1996-160151/16.

Vascular endothelial cell growth factor (VEGF) conjugates - having VEGF linked to targeted agent, used for inhibiting proliferation of cells, e.g. for gene therapy

Example 4; Page 87; 193pp; English.

This sequence represents an amplification primer for (Gly2Ser)2 linker vascular endothelial growth factor (VEGF). The amplified sequence is used in VEGF conjugates of the invention. In the conjugates, VEGF (or

cephalosporanic acid (ACA), comprising fermenting a recombinant pendulum chrysogenum with an acyl side chain precursor, N-deacylating the product, and optionally acylating the free amino group or substituting the 3' acetate group with a side chain to form a cephalosporin antibiotic. The recombinant Penicillium chrysogenum is capable of expressing the enzymes desacetoxycephalosporin synthetase ("expandase"), desacetylcephalosporin C synthetase ("hydroxylase") and

invention relates to a novel method of producing 7-amino

Example 1; Page 16; 17pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cephalosporin C synthetase; acetyl̃transferase; cefg; 7-ACÅ production; 7-Aniho cephalosporanic acid; fermentation; open reading frame; ORF; cephalosporin antiblotic; cefctaxime; cefazolin; ceftriaxone; cefuroxime; ceftrocali; ceftraidime; cefacior; plasmid picGiWa; picG3Wa; picG3Wa;
fragments of it, see AAT17613-T17616 and AAT17739-T17750) are linked to a targeted agent (this can be via a linker sequence), so that the conjugate binds to a VEGF receptor. Cys-modified forms of VEGF are particularly suitable for chemical conjugation to linkers and targeted agents. The conjugates are used for inhibiting proliferation of cells bearing VEGF receptors. They can be used for treating a VEGF-mediated pathophysiological condition, including dermatological disorders with underlying vascular proliferation, solid tumours or an ophthalmic disorder of hyperproliferating blood vessels of the retlin, iris, conjunctiva or vitreous humour. The conjugates can also be used for treating psoriasis, rheumatoid arthritis, skin cancers and other
                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Improved in vivo production of cephalosporins, comprising fermenting Penicillium chrysogenum transformed with a nucleic acid encoding an expandase, a hydroxylase and an acetyltransferase -
                                                                                                                                                                       They are also suitable for use in gene
                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           promoter; Penicillium chrysogenum; Acremonium chrysogenum;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Penicillium chrysogenum pcbC promoter PCR primer, SEQ ID NO:6.
                                                                                                                                                                                                                                                  ; DB 17; Leny...
.. 2.4e+03;
5; Indels
                                                                                                                                                                                                                    BP; 8 A; 16 C; 23 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                 Score 13;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       BP
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                                                                                                                                                                                                                                                                 61.9%;
76.2%;
                                                                                                                                                                         or varicose veins.
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                                                                                                                                                                                                                                                                                                                                                          31 gctctgcaccaatggcagaag
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                                                                                                                                                                                                                                                                                                                             1 gctcttcatgaacagcagaag
                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA72040 standard; DNA; 53
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                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer; ss.
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                                                                                                                                                                          tumours,
                                                                                                                                                                                       therapy
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